

1013. The Genset Engine.

83-204 kVA at 1500/1800 min⁻¹ | rpm



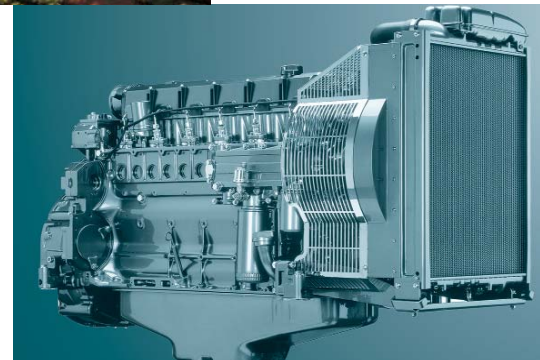
The engine with external cooling system.

These are the characteristics of the 1013 Gen:

- Watercooled 4 and 6 cylinder in-line engine.
- Turbocharging and turbocharging with charge air cooling.
- Displacement: 1.2 l /cylinder.
- Modern high-pressure fuel injection system with single injection pumps.
- Electronic governor (option).
- All servicing points on one side.
- Compact design and low weight.

Your benefits:

- ▶ Low noise radiation. This eliminates the need for costly noise attenuation measures.
- ▶ Exemplarily low fuel and oil consumption, long service intervals save operating costs.
- ▶ Easy and cost-effective installation with minimum weight and small space requirement.
- ▶ Outstanding load acceptance ensures immediate power supply.
- ▶ Incomparably low exhaust emission, meets all industrial exhaust regulations.
- ▶ Global service network with over 1,000 locations.



Dimensions and weights

BF4M 1013 E^{*)}		BF6M 1013 E^{*)}	
Length:	mm inch 1425 56.10	Length:	mm inch 1702 67.00
Width:	mm inch 663 26.10	Width:	mm inch 741 29.17
Height:	mm inch 1151 45.31	Height:	mm inch 1239 48.78
Weight:	kg lb 520 1146	Weight:	kg lb 740 1631
BF4M 1013 EC		BF6M 1013 EC	
Length:	mm inch 1479 58.23	Length:	mm inch 1870 73.62
Width:	mm inch 728 28.66	Width:	mm inch 866 34.09
Height:	mm inch 1151 45.31	Height:	mm inch 1239 48.78
Weight:	kg lb 560 1235	Weight:	kg lb 770 1697
BF4M 1013 FC		BF6M 1013 FC	
Length:	mm inch 1479 58.23	Length:	mm inch 1923 75.71
Width:	mm inch 728 28.66	Width:	mm inch 1003 39.49
Height:	mm inch 1151 45.31	Height:	mm inch 1586 62.44
Weight:	kg lb 560 1235	Weight:	kg lb 770 1697

*) Without charge air cooling

▶ Rating table: 1013. The Genset Engine. 50 Hz

Engine type		BF4M 1013E*)	BF4M 1013EC	BF4M 1013FC	BF6M 1013E*)	BF6M 1013EC	BF6M 1013FC			
Rating category								G1	G2	G3
Speed	min ⁻¹ rpm	1500	1500	1500	1500	1500	1500	1500	1500	1500
Frequency	Hz	50	50	50	50	50	50	50	50	50
Engine/genset ratings¹⁾										
Continuous power, ICN (COP) ²⁾	kW hp	77 103	92 123	96 129	116 155	139 186	154 206			166 222
Prime power, ICN (PRP) ³⁾	kW hp	81 109	97 130	101 135	122 163	146 196	162 217	166 222		183 245
Limited-time running power, IFN (LTP) ⁴⁾	kW hp	85 114	102 137	106 142	128 172	153 205	170 228	183 245		201 270
Typical generator power output										
Typical generator power output (COP) ⁵⁾	kVA	83	98	102	127	149	166			168
Typical generator power output (PRP) ⁵⁾	kVA	88	104	108	134	157	175	184		203
Typical generator power output (LTP) ⁵⁾	kVA	93	109	114	141	165	184	185		204
Spec. fuel consumption (PRP)⁶⁾										
100 % load	g/kWh lb/hp-hr	219 0.360	206 0.339	205 0.337	212 0.348	198 0.326	202 0.332	223 0.367	226 0.372	
75 % load	g/kWh lb/hp-hr	213 0.330	205 0.337	205 0.337	208 0.342	199 0.327	200 0.329	221 0.363	222 0.365	
50 % load	g/kWh lb/hp-hr	216 0.355	210 0.345	209 0.344	212 0.348	202 0.332	202 0.332	222 0.365	223 0.367	

▶ Rating table: 1013. The Genset Engine. 60 Hz

Exhaust gas optimized according to EPA Stage II

Engine type		BF4M 1013E*)	BF4M 1013EC	BF4M 1013FC	BF6M 1013E*)	BF6M 1013EC	BF6M 1013FC			
Rating category								G1	G2	G3
Speed	min ⁻¹ rpm	1800	1800	1800	1800	1800	1800	1800	1800	1800
Frequency	Hz	60	60	60	60	60	60	60	60	60
Engine/genset ratings¹⁾										
Continuous power, ICN (COP) ²⁾	kW hp	81 109	101 135	110 147	122 164	148 198	179 240			186 249
Prime power, ICN (PRP) ³⁾	kW hp	85 114	105 141	116 155	128 172	155 208	188 252	186 249		204 273
Limited-time running power, IFN (LTP) ⁴⁾	kW hp	89 119	110 147	122 164	134 180	163 218	197 264	204 273		225 302
Typical generator power output										
Typical generator power output (COP) ⁵⁾	kWe	69	83	91	105	127	155			148
Typical generator power output (PRP) ⁵⁾	kWe	73	86	96	111	133	163	148		163
Typical generator power output (LTP) ⁵⁾	kWe	76	91	102	116	140	171	181		200
Spec. fuel consumption (PRP)⁶⁾										
100 % load	g/kWh lb/hp-hr	218 0.358	207 0.340	211 0.347	210 0.345	199 0.327	202 0.332	220 0.362	212 0.349	
75 % load	g/kWh lb/hp-hr	215 0.353	207 0.340	210 0.345	212 0.349	199 0.327	202 0.332	216 0.355	205 0.337	
50 % load	g/kWh lb/hp-hr	223 0.367	214 0.352	213 0.350	231 0.380	208 0.341	204 0.335	217 0.357	208 0.342	

1) Possibly power reduction depending on altitude and temperature. Please contact DEUTZ.

2) Continuous power 100 % available at flywheel, no time limitation, plus 10 % extra power for governing purposes.

3) Prime power 100 %, mean power output 60 %, no time limitation, plus 5 % extra power for governing purposes.

4) Limited-time running power 100 %, which must be available during 500 running hrs/year, thereof max. 300 running hrs/year continuously, no overload permissible; the required extra power for governing purposes must be taken into account however.

5) Taking into account typical generator efficiency of 88.8 - 91.2 % and power factor cos (φ) = 0.8.

6) For fuel specification see operation manual.

*) Without charge air cooling and/or EPA Stage II.

The values given in this data sheet are for information purposes only and not binding. The information given in the offer is decisive. Exhaust-optimized ratings on request.

Standard specification

Standard engine:	Connection housing SAE 2, with flywheel 10"/11.5"
Cooling system:	Cooling system HAT, depending on engine version incl. charge air cooler, pressure fan.
Exhaust system:	Without silencer, with counterflange for exhaust system on the turbocharger.
Filter:	Lube oil filter, air filter depending on engine version loose as kit or assembled.
Engine electrics:	12 Volt version, electrical engine governor standard in 6-cylinder FC engines.
Governor:	Mechanical standard, optional electronic governor.
Miscellaneous:	Painted dark gray.



The engine company.

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